

In the Specification

Please add new paragraph [0025.1] between paragraphs [0025] and [0026]:

[0025.1] Fig. 7 illustrates an alternative design where one of the arms has an air gap.

Please amend paragraph [0046] as follows:

[0046] Further, as shown in Fig. 7, the iron core may contain an air gap 120 to allow for a reduction of the size of the FCL. The magnetic length of the iron core determines the amount of superconductor required to bias the core. The inclusion of ~~[[an]]~~ the air gap 120 in the iron core gives the designer another degree of freedom, which can reduce the volume of superconductor required. ~~[[An]]~~ The air gap 120 helps to minimize the linear dimensions of the iron required to bias the core in the DC state, and therefore, provides a smaller and lighter device.